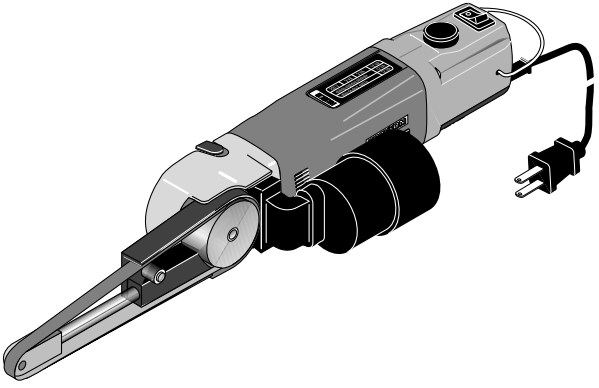
PROXXON

Belt Sander BSL 115/E



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Conforms to
ANSI/UL 60745-1
ANSI/UL 60745-2-4
Certified to
CAN/CSA-C22.2 No. 60745-1-04
CAN/CSA-C22.2 No. 60745-2-4-04

Manual

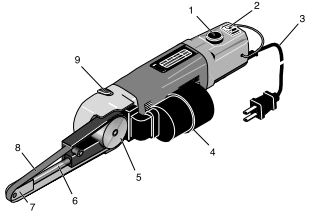


Fig. 1

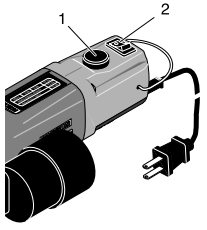


Fig. 2

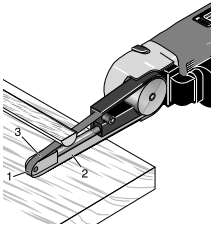


Fig. 3

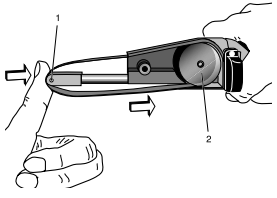


Fig. 4

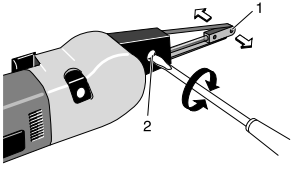


Fig. 5

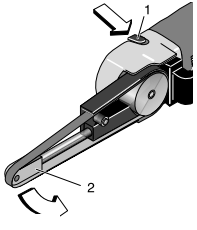


Fig. 6

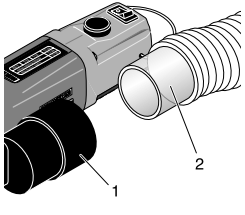


Fig. 7

PROXXON – BSL 115/E

Dear Customer,

Before putting the machine into operation, read the enclosed safety rules and operating instructions.

GENERAL SAFETY RULES

Warning! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

Double Insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. **Double Insulation** ⧈ **eliminates the need for the three wire grounded power cord and grounded power supply system.**

Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W." These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

Do not use tool, if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.

Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES

Accessories must be rated for at least the speed recommended on the tool warning label. Some material may produce harmful or toxic dust (i. e. lead containing paint,some kinds of wood or metal). Accessories running over rated speed can fly apart and cause injury.

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a „live" wire will make exposed metal parts of the tool „live" and shock the operator.

Symbols

Important: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Name	Designation/Explanation
V	Volts	Voltage (potential)
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
s	Seconds	Time
Ø	Diameter	Size of drill bits, grinding wheels, etc.
n_0	No load speed	Rotational speed, at no load
…/min	Revolutions or reciprocation per minute	Revolutions, strokes, surface speed, orbits etc. per minute
1, 2, 3, …	Selector settings	Speed, torque or position settings. Higher number means greater speed
	Infinitely variable selector	Speed is increasing from narrow end
→	Arrow	Action in the direction of arrow
~	Alternating current	Type or a characteristic of current
⧈	Class II construction	Designates Double Insulated Construction tools.

Legend (Fig. 1)

1. Speed regulator knob
2. ON - OFF switch
3. Mains supply cable
4. Adapter for dust extraction
5. Drive wheel
6. Tensioning bar
7. Tensioning wheel
8. Grinding belt
9. Retaining knob

Functional Description

The PROXXON belt sander BSL 115/E is a light, compact and user-friendly unit. It can be used in modeling, tool and mould manufacture, finishing jobs, but also in repair work on motor vehicles. The unit enables metal, plastic and wood to be processed. It can be used for regrinding moulds, grinding small apertures and for polishing. It can additionally be used for deburring and breaking edges, removing paint and finishing surfaces. Turning is carried out via a maintenance-free miter gear. The sanding belt is driven by a robust aluminum drum which is equipped with a double-bearing. The tensioning roller is also equipped with ball bearings. The grinding head may be swiveled, by simply pressing the retaining knob, so that work in awkward places is also possible.

Technical data

Dimensions, weight:

Length	approx. 13" (330 mm)
Weight	approx. 1,4 lb

Grinding belt length	13" x $^{13}/_{32}$"(330 x 10 mm)
Head can be rotated by 60°	
Motor:	
Voltage:	~115 V, 50/60 Hz
Belt speed	300 to 700 m/s
Characteristic noise emission	≤ 80 dB (A)
Noise level may exceed 85 dB(A) during operation. Ear protection must be worn!	
Vibration at handle	≤ 2.5 m/s²

☐ Class II Equipment Double Insulation

Operation

Working with the unit.

WARNING!

Do not work without protective goggles and protective mask.

1. Switch unit on at switch **2** (Fig. 2) and adjust the speed at knob **1** in accordance with the operation.
2. The grinding surface **2** (Fig. 3) is particularly suitable for processing plane surfaces. Curved or round surfaces are best processed with grinding surface **3**. Surface **1** is suitable for operations in narrow apertures and cavities.

NOTE:

High grinding performance is achieved not by applying excessive pressure but by employing a correct and even belt speed. Let the belt do the work and do not put too much pressure on the tool.

Replacing the grinding belt

WARNING!

Disconnect from the mains before replacing the grinding belt.

1. Depress tensioning roller **1** (Fig. 4) axially towards the drive wheel and remove grinding belt from the drive wheel sidewards **2**.
2. First position new grinding belt around the tensioning roller **1**. Then press the tensioning roller backwards and position the belt over the drive wheel **2**.

Adjusting the grinding belt

The grinding belt must run in the center of the tensioning roller. If this is not the case, it must be readjusted.

WARNING!

Danger of injury!

1. Switch unit on.
2. Select lowest speed.
3. Turn adjusting screw **2** (Fig. 5) to left or right until the belt runs in the center of the tensioning roller **1**.

Adjusting the grinding head

1. Switch unit off
2. Press retaining knob **1** (Fig. 6) in and adjust the grinding head **2** to the desired angle.
3. Release retaining knob. The grinding head engages.

Connecting the vacuum cleaner

1. Connect parts of the connection adapter **1** (Fig. 7).

NOTE:

The adapter parts can be connected in such a way that vacuum cleaner pipes of various diameters may be connected.

2. Insert vacuum cleaner hose **2** into the adapter **1**.

Maintenance

WARNING !

Danger of injury!

Disconnect from the mains prior to all maintenance and cleaning operations.

NOTE:

Each unit becomes soiled in carrying out operations on wood. Care is therefore essential. Always keep the apertures which are necessary for cooling the motor free of dust and dirt. All grinding dust must be thoroughly removed with a brush or a soft cloth. Make certain that no ventilation slots are obstructed.

The power cord shall be replaced by part no. 38536-53 only, if the cord is damaged.

Accessories (included):

Replacement grinding belts (4 units)

For safe operation, it is recommended that only PROXXON-accessories be used with this product, i. e. the following:

Grinding belts 28581 (240 grit-set of 5)
Grinding belts 28583 (100 grit-set of 5)

Please order spare parts in writing from Proxxon Service center
(Adress on the back of this manual)

Belt sander BSL 115/E

article-no. 38536

Part-No.	Designation	Part-No.	Designation
28536-07	Tie rod	28536-39	Ring nut
28536-10	Spring	28536-40	Shaft
28536-11	Screw	28536-41	Fan
28536-12	Screw	28536-42	Screw
28536-13	Wave washer	28536-43	Strip
28536-14	Washer	28536-44	Housing
28536-15	Retaining ring	38536-45	Motor
28536-16	Support for abrasive belt	28536-46	Backup-ring
28536-17	Bracket	38536-47	Board
28536-18	Abrasive belt	28536-48	Screw
28536-19	Washer	28536-49	Adjusting knob
28536-20	Retaining ring	28536-50	On-off-switch
28536-21	Driving wheel	28536-51	Cap
28536-22	Plunger pin	28536-52	Bow
28536-23	Flange	38536-53	Power supply cord
28536-24	Screw	28536-54	Centering ring
28536-25	Bearing	28536-55	Pinion gear
28536-27	Bushing	28536-56	Retaining ring
28536-28	Aluminum head	28536-57	Spring
28536-29	Spring	28536-58	Ball
28536-30	Knob	38536-59	Label
28536-31	Screw	28536-60	Ring gear
28536-32	Extraction system part 1	28536-61	Pinion gear
28536-33	Extraction system part 2	28536-62	Screw
28536-34	Screw	28536-63	Bearing
28536-35	Extraction system part 3	28536-97	Packaging
28536-36	Extraction system part 4	38536-99	Manual
28536-38	Bearing		

LIMITED WARRANTY OF PROXXON POWER TOOLS FOR HOME USE

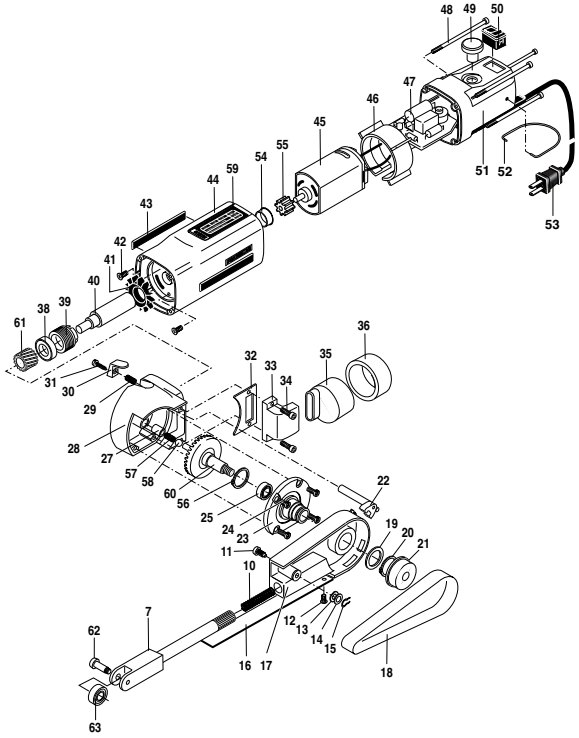
Prox-Tech, Inc., ("Seller") warrants to the original purchaser only, that all PROXXON consumer power tools will be free from defects in material or workmanship for a period of two years from the date of purchase. Seller's sole obligation and your exclusive remedy under this limited warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Station. In the event of a failure of a product to conform to this written warranty, please refer to the Service and Repair section on the back of this manual and take action accordingly.

This Limited Warranty does not apply to accessory items such as circular saw blades, drill bits, router bits, jigsaw blades, sanding belts, grinding wheels and other related items. Damage to the product resulting from tampering, accident, abuse, negligence, unauthorized repairs or alterations, unapproved attachments or other causes unrelated to problems with material or workmanship are not covered by this warranty.

Any implied warranties shall be limited in duration to two years from date of purchase. Some states in the U.S. and some Canadian provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

In no event shall seller be liable for any incidental or consequential damages (including but not limited to liability for loss of profits) arising from the sale or use of this product. Some states in the U.S. and some Canadian provinces do not allow the exclusion or limitation of incidental or consequential damages; so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights, which vary from state to state in the U.S., province to province in Canada and from country to country. This limited warranty applies only to PROXXON power tools sold within the United States of America, Canada, the commonwealth of Puerto Rico and Mexico. For warranty coverage within other countries contact your local PROXXON Importer.

Exploded Drawing for BSL 115/E



PROXXON

SERVICE AND REPAIR

Your device does not work properly? Please read the operating instructions again carefully. If the unit is in fact defective, please send it to:

Prox-Tech, Inc.
Attn.: PROXXON Service Center
2555 Tate Blvd. S.E.
Hickory, NC 28601

Please make sure, that your tool is **carefully packaged** and include a copy of your **dated proof of purchase**. You will help us to react even quicker, if you describe the problem in short and please **don't forget to include your name, address and daytime telephone number**. We will respond in a prompt and reliable manner.

Spare Parts
You can also order any necessary **spare parts** from our Service Center at the above address. Please check the **article-number** of the tool concerned on the nameplate of the tool and define the part needed by using the **explosion drawing** in the manual that came with the tool. **Every part has a specific number** (5 digit-XX). Please provide us with this number when ordering.

For any further information call us toll free at
1-877-PROXXON
(1-877-776 9966) or visit us on the web at
www.proxxon.com/us.

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Art.Nr. 38536-99 PR 711710702J

We reserve the right to make further alterations for the purpose of technical progress.